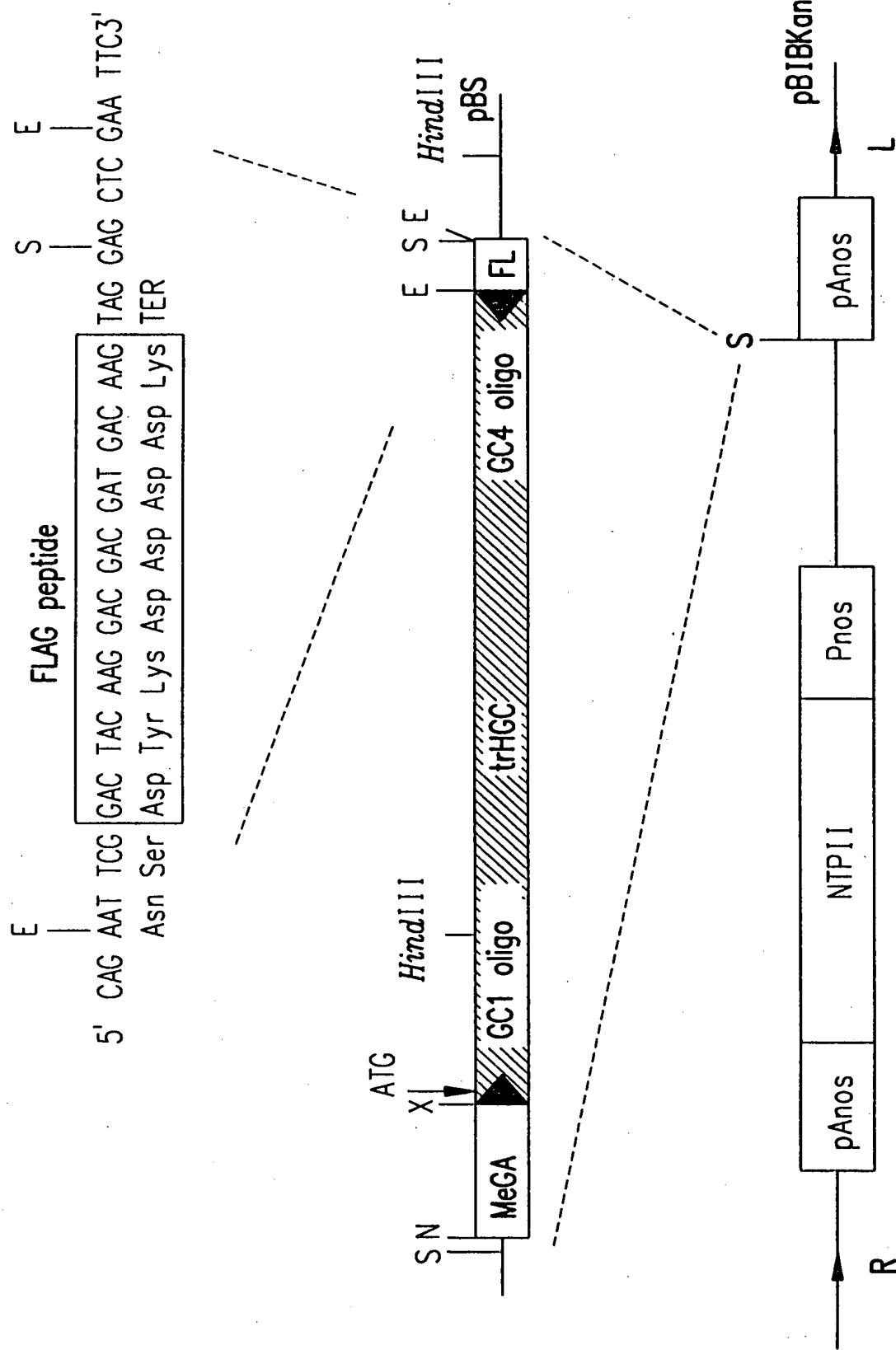


5929304



1  
FIG.

**FIG.2A**



**FIG.2B**



**FIG.2C**



**FIG.2D**

**FIG.2E**

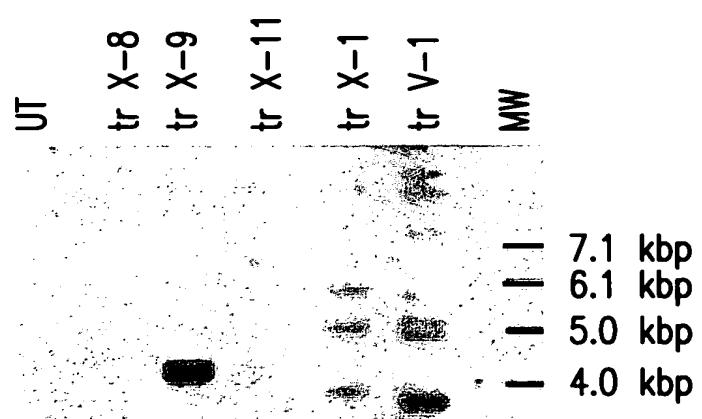


FIG. 3

hGCase  
mRNA →

UT 0h-PW  
UT 24h-PW

X-11 0h-PW  
X-11 24h-PW

FIG.4

1 2 3 4 5 6 7 8      1 2 3 4 5 6 7 8

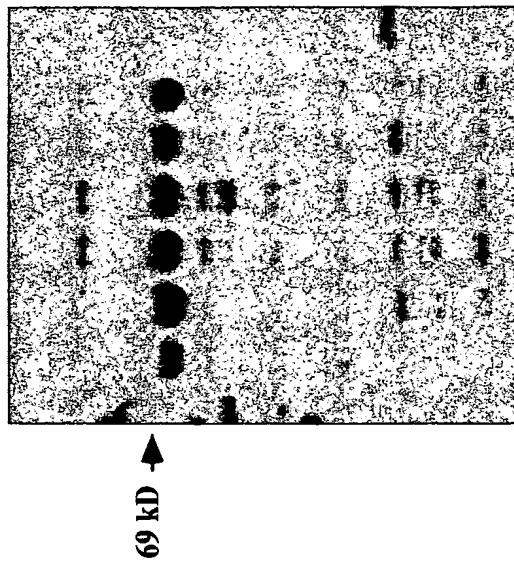


FIG.5A

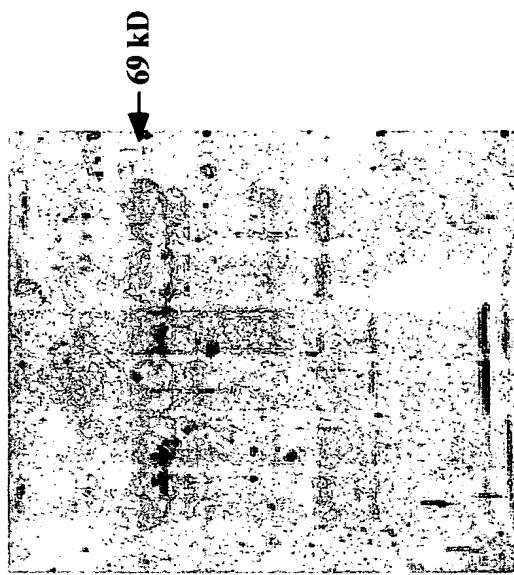


FIG.5B

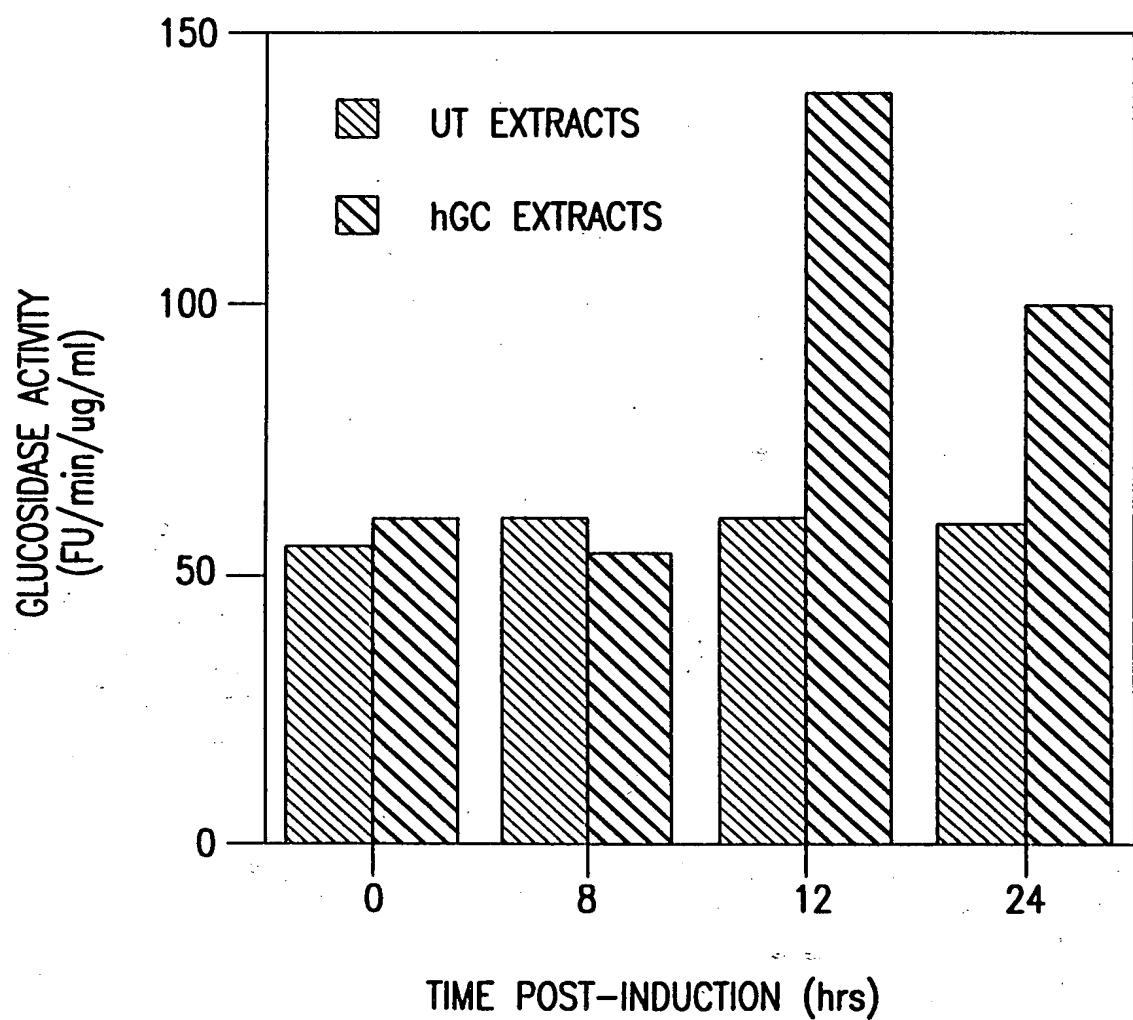
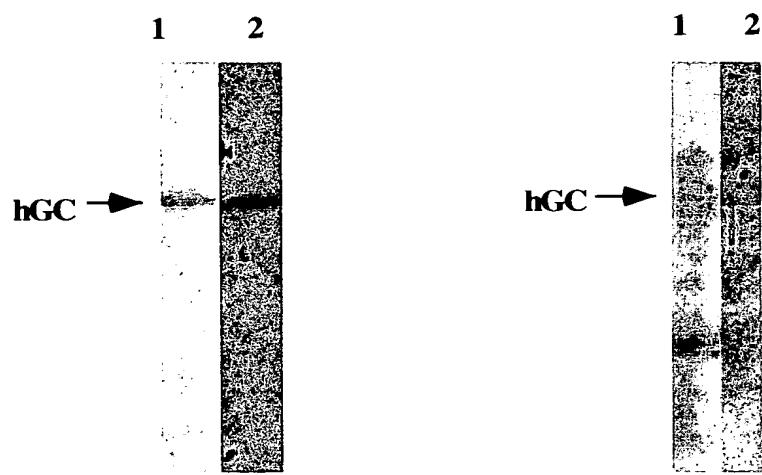
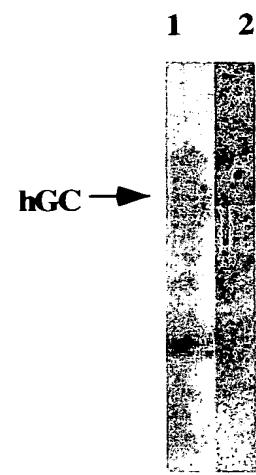


FIG.6



**FIG.7A**



**FIG.7B**

1  
2  
3  
4  
5



FIG.8A



FIG.8B



FIG.8C

**FIG. 9A**

123 ATGGAGTT TTC AAGTCCT TCCAGAGGG  
151 AATGTC CCAA GCC TTGAGT AGGGTA AGCA TCATGGCTGG CAGCCTCACA  
201 GGTTGCTTC TAC TTCA GGGC AGTGTGGTGG GCATCAGGGTGG CCC GCCCCCTG  
251 CATCCCTAA AGC TTGCGCT ACAGCTCGGT GGTGTGTGTC TGCAATGCCA  
301 CATACTGTGA CTCCTTGAC CCCCCGACCT TTCCTGCCCT TGGTACCTTC  
351 AGCCGCTATG AGAGTACACG CAGTGGCGA CGGATGGGG TGAGTATGGG  
401 GCCCATCCAG GCTAATCACA CGGGCACAGG CCTGCTACTG ACCCTGCAGC  
451 CAGAACAGAA GTTCCAGAAA GTGAAGGGAT TTGGAGGGC CATGACAGAT  
501 GCTGCTGCTC TCAACATCCT TGGCCCTGTCA CCCCTGCCA CCCCTGCCA AAAATTGCT  
551 ACTTAAATCG TACTTCTCTG AAGAAGGAAT CGGATAAAC ATCATCCGGG  
601 TACCCATGGC CAGCTGTGAC TTCTCCATCC GCACCTACAC CTATGCAGAC  
651 ACCCTGTGATG ATTCCAGTT GCACAACTTC AGCCTCCAG AGGAAGATAAC  
701 CAAGCTCAAG ATACCCCTGA TTCA CACCAGG CCTGCA GTTG GCCCAAGCGTC

751 CCGTTTCACT CCTTGCAGC CCCTGGACAT CACCCACTTG GCTCAAGACCC  
801 AATGGAGCGG TGAATGGAA GGGGTCACTC AAGGGACAGC CCGGAGACAT  
851 CTACCAACAG ACCTGGCCA GATACTTGTG GAAGTTCCCTG GATGCCCTATG  
901 CTGAGGCACAA GTTACAGTTC TGGGCAGTGA CAGCTGAAAA TGAGCCCTCT  
951 GCTGGGCTGT TGAGTGGATA CCCCTCCAG TGCCTGGCT TCACCCCTGA  
1001 ACATCAGCGA GACTTCATTG CCCGTGACCT AGGTCCCTACC CTCGCCAACAA  
1051 GTACTCACCA CAATGTCCGC CTACTCATGC TGGATGACCA ACGCTTGCTG  
1101 CTGCCCACT GGGCAAAGGT GGTACTGACA GACCCAGAAG CAGCTAAATA  
1151 TGTTCATGGC ATTGCTGTAC ATTGGTACCT GGACTTTCTG GCTCCAGCCA  
1201 AAGCCACCCCT AGGGGAGACA CACCGCCTGT TCCCCAACAC CATGCTCTT  
1251 GCCTCAGAGG CCTGTGTGGG CTCCAAGTTT TGGGAGCAGA GTGTGGGCT  
1301 AGGCTCCTGG GATCGAGGGA TGCAGTACAG CCACAGCATT ATCACGAACCC  
1351 TCCTGTACCA TGTGGTGGC TGGACCCGACT GGAACCTTGC CCTGAAACCCC

FIG. 9B

1401 GAAGGAGGAC CCAATTGGGT GCGTAACCTT GTCGACAGTC CCATCATTTG  
1451 AGACGTCAAC AGGGACACGT TTACAAACA GCCCATGTT TACCAACCTTG  
1501 GCCACTTCAG CAAGTTCAATT CCTGAGGGCT CCCAGAGAGT GGGGCTGGTT  
1551 GCCAGTCAGA AGAACGACCT GGACGGCAGTG GCACACTGATGC ATCCCGATGG  
1601 CTCTGCTGTT GTGGTCGTGC TAAACCCGCTC CTCTAAGGAT GTGCCCTCTTA  
1651 CCATCAAGGA TCCTGCTGTG GGCTTCCTGG AGACAAATCTC ACCTGGCTAC  
1701 TCCATTCAACA CCTACCTGTG GCGTCGCCAG aattcggaact acaaggacga  
1751 cgatgacaag ttGA

FIG.9C

1 50  
MEFSSPSREE CPKPLSRVS IMAGSLTGLL LLQAVSWASG ARPCIPKSFG  
51 100  
YSSVVCVCNA TYCDSFDPP TFPALGTFSR YESTRSGRRM ELSMGPIQAN  
101 150  
HTGTGLLLTL QPEQKFQKV KGFCCGAMTDA AALNILALSP PAQNLLLKSY  
151 200  
FSEEGIGYNI IRVPMASCD FSIRTYTYAD TPDDFQLHNF SLPEEDETKLK  
201 250  
IPLIHRALQL AQRPVSLLA SPWTSPTWLK TNGAVNGKGS LKGQPGDIYH  
251 300  
QTWARYFVKF LDAYAEHKL QFWAVTAENE PSAGLLSGYP FQCLGFTPEH  
301 350  
QRDFIARDLG PTLANSTHH NVRLLMLDDQ RLLLPHWAKV VLTDPEAAKY  
351 400  
VHGIAVHWYL DFLAPAKAT LGETHRLFPN TMLFASEACV GSKFWEQSVR  
401 450  
LGSWDRGMQY SHSIITNLL YHVVGWTDWL LALNPEGGPN WVRNFVDSP  
451 500  
IVDVTKDTFY KQPMFYHLG HF SKF IPEGS QRVGLVASQK NDLDAAVALMH  
501 550  
PDGSAVVVVL NRSSKDVP<sub>L</sub> TIKDPAVGFL ETISPGYSIH TYLWRRQnsd  
ykd<sub>ddd</sub>dk"

FIG.10

60 CAAACGGATA TTACCGATA TTATACTAAA TCAAATAATTAA ATTATTCATA TCGAATTATT  
AAACTGATAT TTCAAAATT TTAAATTTAAT ATCTACTTTTC AACTATTATT ACCTTAATTAT  
120 CAAATGGAAA ATGTATGAGT TATTTCATAA TAGCCCCGAGT TCGTATCCAA ATATTTCATA  
180 CTTGACCACT CAACTTGACT ATATAAAACT TTACTTCAAA AAATAAAAAA AAAAAGAAAG  
240 TATATTATTG TAAAGATAA TACTCCATTG AAATAATAAA ATGAAAAAAAG TCCAGGGCGG  
300 CAACCGGGTT CCTCTATAAA TACATTTCCT ACATCTTCCTC TTCTCTCAC ATCCCCATCAC  
360 TCTTCTTTA ACAATTATAAC TTGTCAATCA TCAATCCCCAC AAACAAACACT TTTCTCTCC  
420 TCTTTCTCCT CACCGGGGGC AGACTTACCG GTGAAATACTA GAGTAAGCAT C  
471

FIG. 11

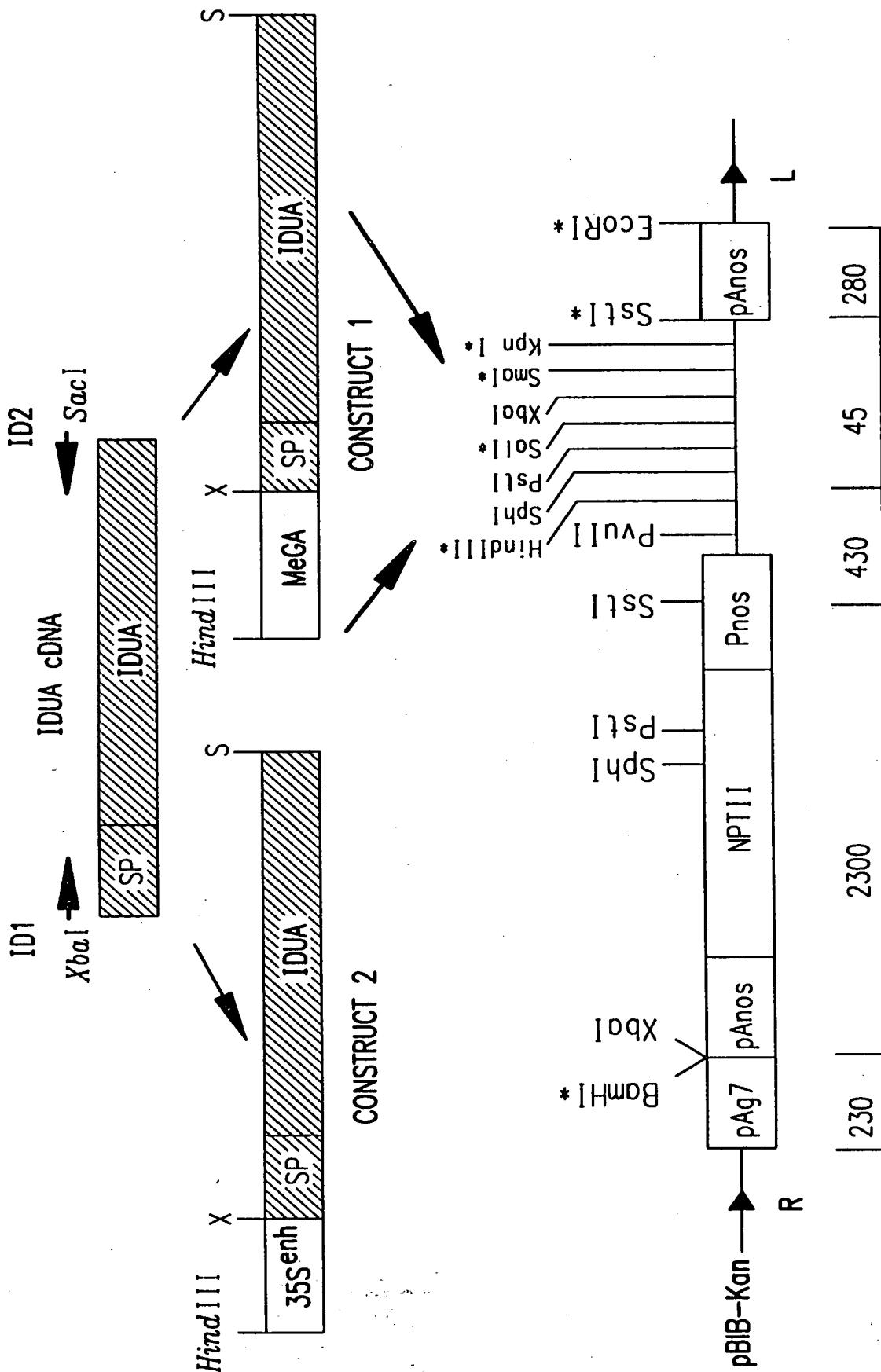
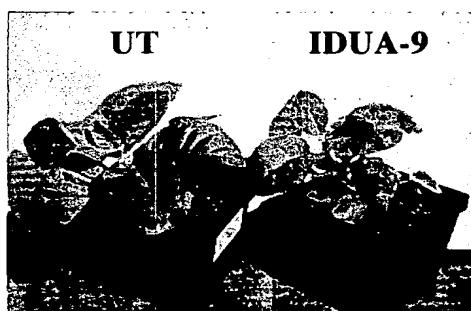


FIG. 12

**FIG.13A**



**FIG.13C**

**FIG.13B**

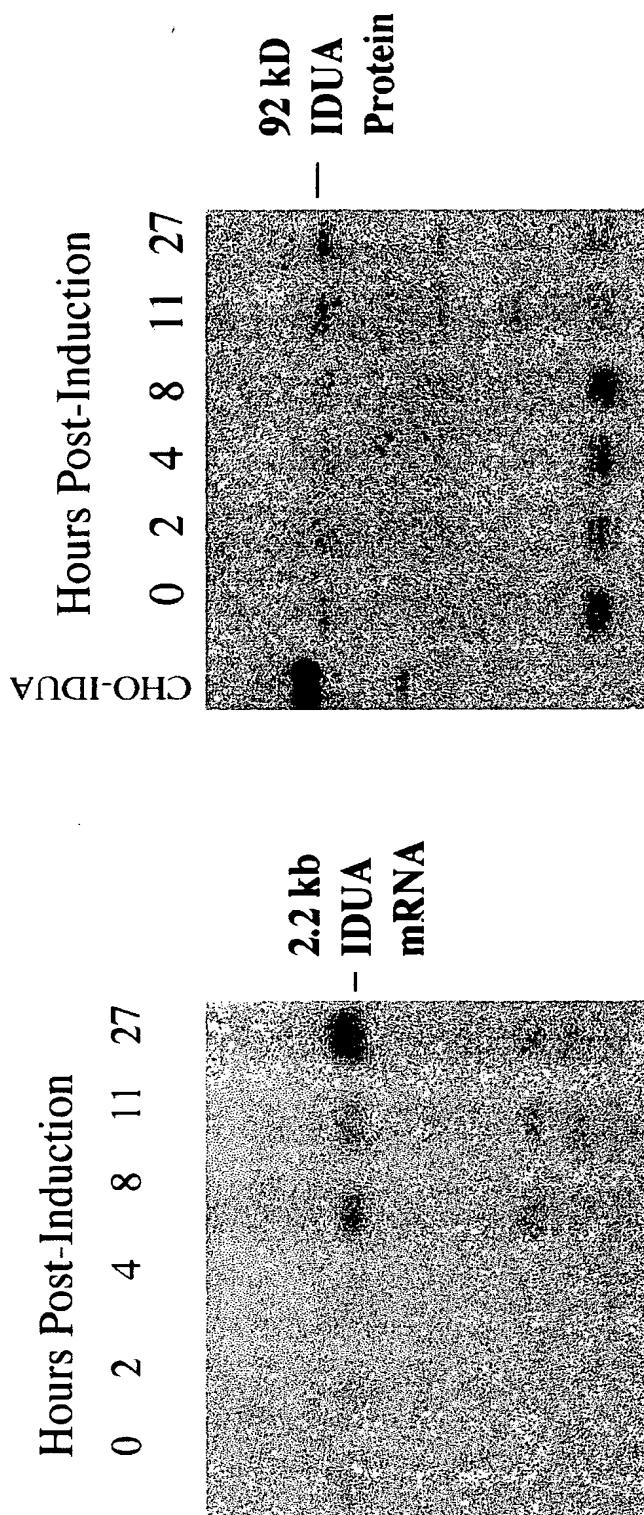


FIG. 14A

FIG. 14B

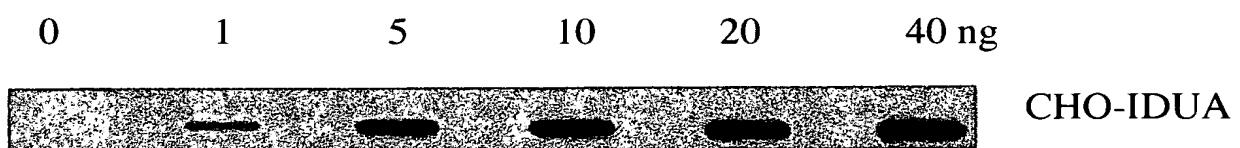


FIG.15A

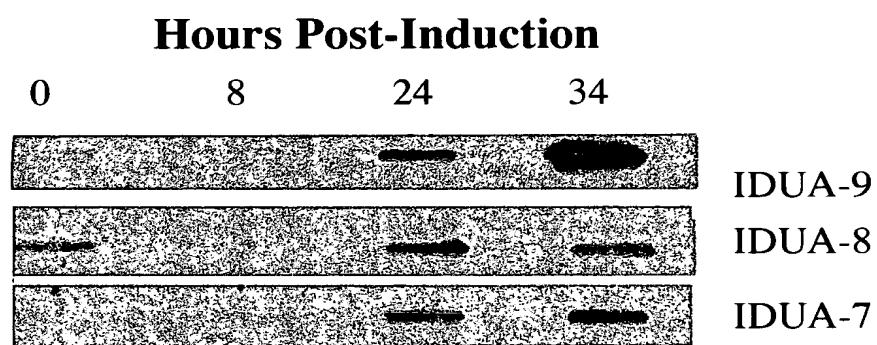


FIG.15B

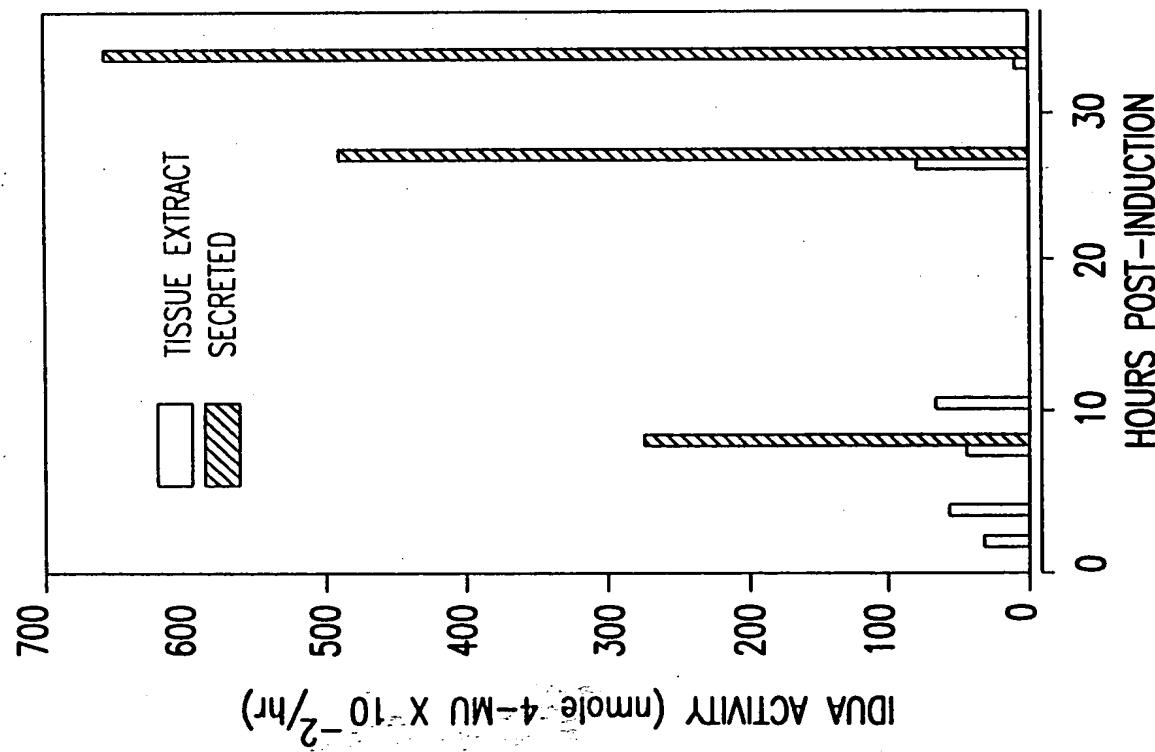


FIG. 16A

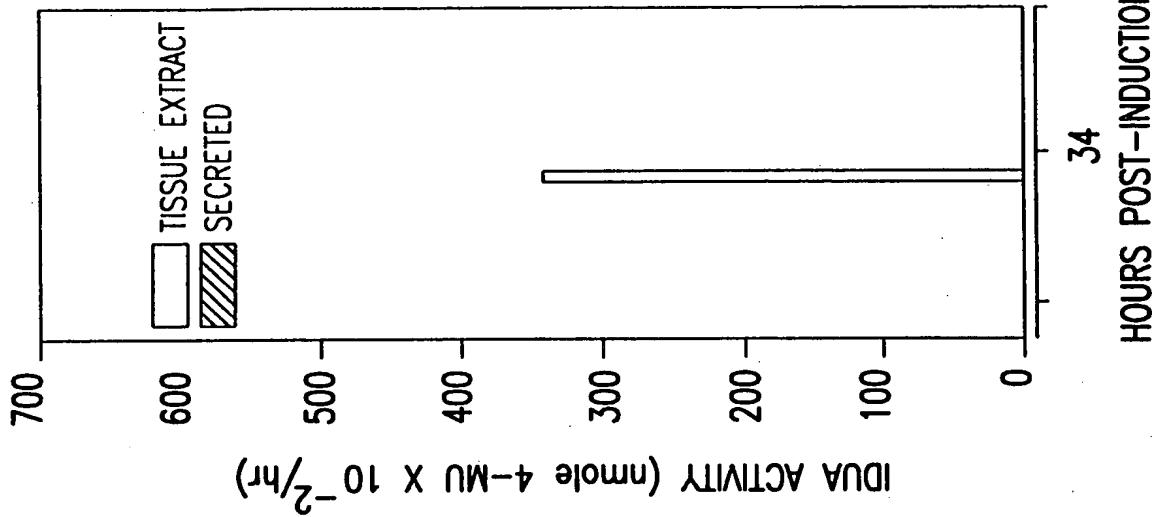


FIG. 16B

FIG. 17B

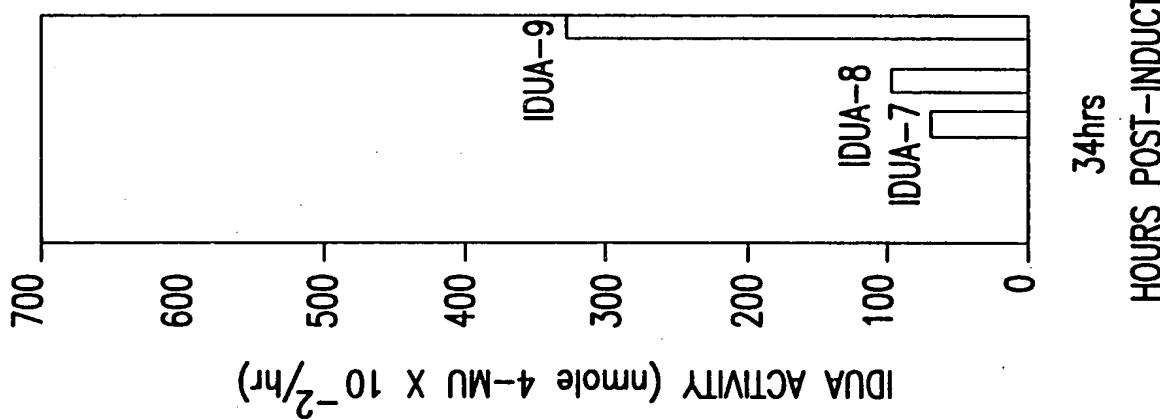
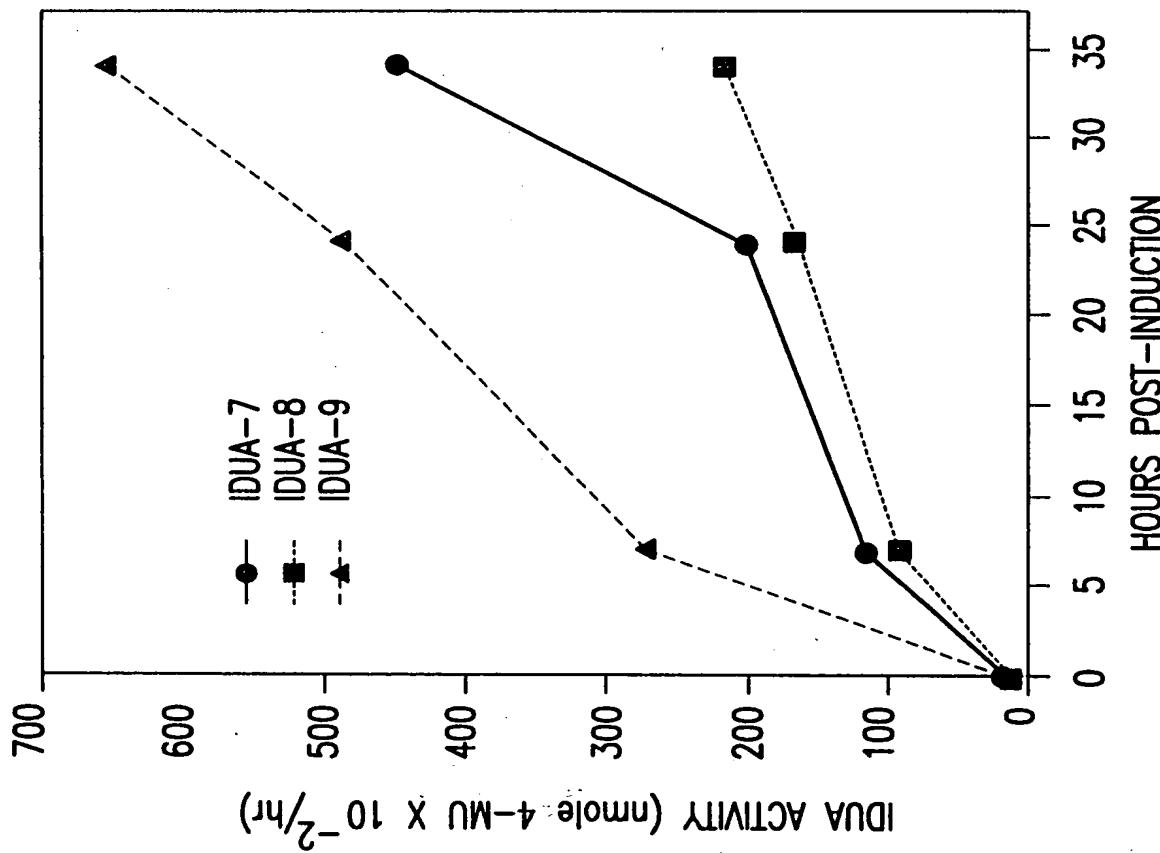


FIG. 17A



1                    2                    3



24                    26                    36

Hours Post-Induction

FIG. 18

90 110  
ATCGTCCCCCTGGCCCCGGCGCGCTGCT  
  
130 150 170  
GGGGCTGGCCTCGCTCCCTGGCCGGCGCCGGGGTGGCCCCGGCGAGGGCCCCGACCT  
  
190 210 230  
GGTGCAGgTGGACGGCCGGCGGCTGTGGCCCCCTGGGGGCTGACCAAGTACGTCCTCAGCTGGGACAGGG  
  
250 270 290  
CTTCTGGCCCCGGCTGCCACACAGCCAGGCTGACCAAGTACGTCCTCAGCTGGGACCCAGCA  
  
310 330 350  
GCTCAACCTCGCCTATGTGGGGCCGGTCCCTCACCGGGCATCAAGCAGGTCCGGACCCA  
  
370 390 410  
CTGGCTGGAGGCTTGTACCCACCAAGGGGTCCACTGGACGGGGCCTGAGCTACAACTT  
  
430 450 470  
CACCCACCTGGACGGGTACTTGGACCTTCTCAGGGAGAACCGCTCCAGGGTTGAA

FIG. 19A

490 510 530  
GCTGATGGCCAGCGGCCTCGGGCCACTTCACTGACTTGTAGGGACAAGCAGCAGGTGTTGA

550 570 590  
TGTGAAGGACTTGGTCTCCAGGCCAGGAGATAACATCGGTAGGTACGGACTGGCGCA

610 630 650  
TGTTTCCAAGTGGAACTTCGAGACGCTGGAAATGAGCCAGACCCACGACTTTGACAAACGT

670 690 710  
CTCCATGACCATGCAAGGCTTCCTGAACTAACCTACGATGCTGGAGGGTCTGGCGCGC

730 750 770  
CGCCAGCCCCCTGGCTGGAGGGCCCCGGGACTCCTCCACACCCACCGCGGATC

790 810 830  
CCGGCTGAGCTGGGCCCTCGGCCACTGCCACGACGGTACCAACTTCACTGGGA

FIG. 19B

### FIG. 19C

850 870 890  
GGCGGGCGTGGGACTACATCTCCCTCACAGGAAGGGTGCAGCTCCATCTC  
  
910 930 950  
CATCCTGGAGGAGAAGGTCGTCGCGCACgAGATCCGGCAGCTCTCCCCAAGTTCG  
  
970 990 1010  
GGACACCCCCATTACAACGAGGGGGACCCGGCTGGTGGGCTGGTCCCTGCCACAGGC  
  
1030 1050 1070  
GTGGAGGGGGACGTGACCCATACGGGCCATGGTGGTGAAGGGTCATCGGCCAGCATCAGAA  
  
1090 1110 1130  
CCTGCTACTGGCCAACACCCACCTCCGGCCTACGGCCTCCCTGAGCAACGACAATGC  
  
1150 1170 1190  
CTTCCTGAGCTACCAACCCGCACCCCTTCGCGCAGCGCACGGCTCACCGGGCTCCAGGT  
  
1210 1230 1250  
CAACAAACACCCGGCCGGCACGTCAGCTGGCAAGGCCGGTGCCTCACGGCCATGGG

1270 1290 1310  
GCTGCTGGCGCTGGATGAGGAGCAGGCTCTGGGCCAAGTGTGGCAGGGGGACCGT

1330 1350 1370  
CCTGGACAGCAACCACACGGTGGCGCTGGCCAGCGCCCCAGGGGGGG

1390 1410 1430  
CGACCCCTGGCGCGCCGGCTGCTGATCTACGGGAGCGACACCCGGCCACCCAA

1450 1470 1490  
CCGCAGCGTGGCGGTGACCCCTGGGGCTGGCCGGCTGGTCTGGTCTA

1510 1530 1550  
CGTCACGGCTACCTGGACAACGGGCTCTGGCAGCCCCGACGGCGAGTGGGGGGCTGGG

1570 1590 1610  
CCGGCCCGTCTTCCCCACGGCAGAGCAGTTCGGGGCATGGCGGGCTGAGGACCCGGT

FIG. 19D

FIG. 19E

1630 1650 1670  
GGCCGGCCGGCCGGCCCTTACCCGGCCGGCGGCCTGACCCCTTGCGCCCCGGCGCTGGCG  
  
1690 1710 1730  
GCTGCCGTCGCTTGTGCTGGTGCACGTGTGGCGCCCGAGAAGCCGGGGCAGGT  
  
1750 1770 1790  
CACCGGGCTCCGGCCCTGGCCCTGACCCAAAGGGCAGCTGGTTCTGGTCTGGATGA  
  
1810 1830 1850  
ACACGTGGCTCCAAGTGCCTGTGGACATACGAGGATCCAGTTCTCAGGACGGTAAGGC  
  
1870 1890 1910  
GTACACCCGGTCAGCAGGAAGGCCATCGACCTTCAACCTCTTGTGTTCAAGCCCAGACAC  
  
1930 1950 1970  
AGGTGCTGTCCTGGCTCCTACCGAGTTCGAGCCCTGGACTACTGGGCCGACCCAGGCC  
  
1990 2010 2030  
CTTCGGGACCCCTGTGCCGTACCTGGAGGTCCCTGTGCCAAGAGGGCCCATCCCCGGG

2050 CAATCCATGAGCCTGTGCTGAGCCCCAGTGGTTGCACCTCCACCGGCAGTCAGGGAGCT  
2070  
2090  
2110 GGGGCTGCACTGTGCCATGCTGCCCTCCCCATCACCCCCCTTGCAATATTTT  
2130  
2150

FIG. 19F

10 30 50  
MRPLRPRALLALIASLLAAPPVAPAAEAPHLVHVTDAAPRALWPLRRFWRSTGFCPPLPHSQ

70 90 110  
ADQYVLSWDQQLNILAYVGAVPHRGIKQVRTHWLLELVTRGSTGRGLSYNFTHLDGTLDDL

130 150 170  
LRENQLLPGFEIMGSASGHFTDFEDKQQVFEWKDLVSSLIARRYIGRYGLAHVSKWNFETIW

190 210 230  
NEPDHHDFFDNVSMTMQGFLINYDACSEGIRAAASPAALRLGGPGDSEHTPPRSPLSWGLLRH

250 270 290  
CHDGTNFFTGEAGVRLDYISLHRKGARSSISILEQEKKVVAQEIRQLFPKFAADTPYINDEA

310 330 350  
DPLVGWSLBPQWPWRADVTYAAVVVKVIAQHQNLLIANTTSAFPYALLSNDNAFLSYHPHPF

370 390 410  
AQRTLTAREFQVNNTTRPPhiVQLLRKPVLTAMGLLALLDEEQLWAEVSQAGTVILDNSNHTVGV

FIG.20A

430                    450                    470  
LASAHRPQGPADAWRAAVLIYIASDDTRAHPNRSVAVTLLRGVPPGPGLVYVTRYLDNGL

490                    510                    530  
CSPDGEWRRILGRPVFPTAEQFRRMRAAEDPVAAAPRPLPAGGRLTIRPAIRLPPSLLLVHV

550                    570                    590  
CARPEKPPGQVTRILRALPLTQGQLVLLVWSDEHVGSKCLWTYEIQFSQDGKAYTPVSRKPS

610                    630                    650  
TFNLFVFSPTGAVSGSYRVRALDYWARPGPFSDPVPPYLEVPVPRGPPSPGNP

FIG.20B

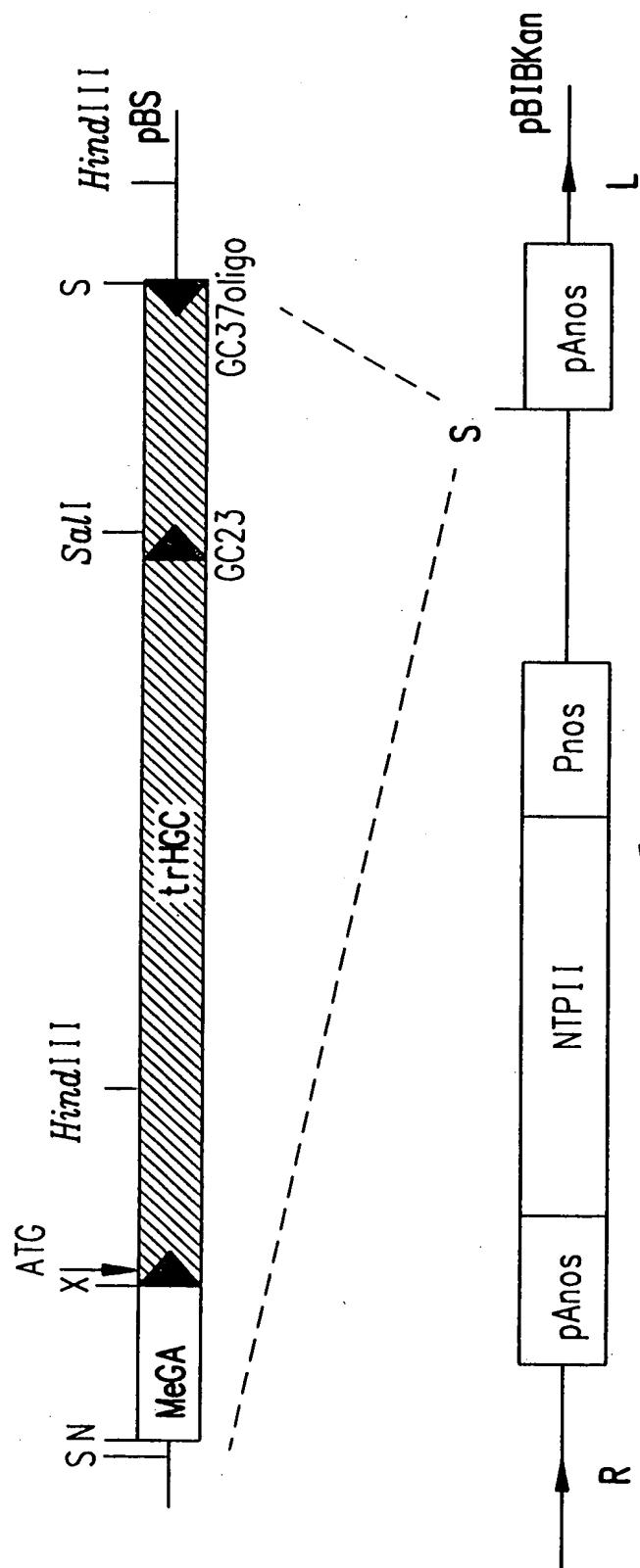


FIG.21